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北京市阜成门外大街 2 号万通新世界广场 8 层	A HAM
中国国际贸易促进委员会专利商标事务所	4 70 1
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A LETTER SENIE ROTE OF THE SENIE ROTE OF THE SENIE ROTE OF THE SENIE O	
申请号: 021020264	
申请人:东方工程公司	
发明创造名称:渗碳方法和渗碳设备	
titie . No plan who will also the late	
第一次审查意见通知书	
. ②应申请人提出的实审请求,根据专利法第35条第1款的规定,国家知	识产权局对上述发明专利甲请进
行买质审查。	
□根据专利法第35条第2款的规定,国家知识产权局决定自行对上述发	党明专利申请进行审 查。
. ☑申请人要求以其在:	
JP 专利局的申请日 2001年 01月 19日为优先权日	
专利局的申请日 年 月 日为优先权日,	
专利局的申请日 年 月 日为优先权日, 专利局的申请日 年 月 日为优先权日,	
专利局的申请日 年 月 日为优先权日。 「申请人已经提交了经原申请国受理机关证明的第一次提出的在先申请	。 各文件的副末
申请人尚未提交经原申请国受理机关证明的第一次提出的在先申请文	月又计时时平。 7.他的副本 组提去到注第 90 夕
的规定视为未提出优先权要求。	CTF17111111中,似场 2个11左第 30 余
· □申请人于 年 月 日和 年 月 日提交了修改文件。	
经审查,申请人于: 年 月 日提交的 不符合实施细则第 51	条的规定:
年 月 日提交的 不符合专利法第 33 条	
审查针对的申请文件:	
☑原始申请文件。 □审查是针对下述申请文件的	
to the CT ACT who AA, CCC AA, Adm. A.,	「、附图第 页;
年 月 日提交的权利要求第 项、说明书第	页、附图第 页;
年 月 日提交的权利要求第 项、说明书第	页、附图第 页;
年 月 日提交的权利要求第 项、说明书第	页、附图第 页:
年 月 日提交的说明书摘要, 年 月	日提交的摘要附图: 以 \ 月 //
□本通知书是在未进行检索的情况下作出的。	《华人代表
☑本通知书是在进行了检索的情况下作出的。	1 H
☑本通知书引用下述对比文献(其编号在今后的审查过程中继续沿用):	
编号 文件号或名称 公开日期(或抵触申请的	申请日)
1 月平 2000-1294184 2000年5月9日	
2 US5828582A 1998年10月27日	
	当時
审查的结论处意见	

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□关于说明书:

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申请号 021020264 □申请的内容属于专利法第 5 条规定的不授予专利权的范围。 □说明书不符合专利法第 26 条第 3 款的规定。 □说明书不符合专利法第 33 条的规定。 □说明书的撰写不符合实施细则第 18 条的规定。 ☑关于权利要求书: □权利要求 不具备专利法第22条第2款规定的新颖性。 ✓ 权利要求 不具备专利法第22条第3款规定的创造性。]权利要求 不具备专利法第22条第4款规定的实用性。 属于专利法第25条规定的不授予专利权的范围。]权利要求]权利要求 不符合专利法第26条第4款的规定。 【权利要求 不符合专利法第31条第1款的规定。 不符合专利法第33条的规定。]权利要求 一权利要求 不符合专利法实施细则第2条第1款关于发明的定义。 不符合专利法实施细则第13条第1款的规定。 】权利要求 □权利要求 不符合专利法实施细则第20条的规定。 不符合专利法实施细则第21条的规定。 门权利要求 不符合专利法实施细则第22条的规定。 7权利要求 □权利要求 不符合专利法实施细则第23条的规定。 上述结论性意见的具体分析见本通知书的正文部分。 7. 基于上述结论性意见, 审查员认为: □申请人应按照通知书正文部分提出的要求,对申请文件进行修改。 □申请人应在意见陈述书中论述其专利申请可以被授予专利权的理由,并对通知书正文部分中指出的不符 合规定之处进行修改,否则将不能授予专利权。 ②专利申请中没有可以被授予专利权的实质性内容,如果申请人没有陈述理由或者陈述理由不充分,其申 请将被驳回。 П 8. 申请人应注意下述事项: (1)根据专利法第37条的规定,申请人应在收到本通知书之日起的肆个月内陈述意见,如果申请人无正当理 由逾期不答复,其申请将被视为撤回。 关规定。

- (2)申请人对其申请的修改应符合专利法第 33 条的规定,修改文本应一式两份,其格式应符合审查指南的有
- (3)申请人的意见陈述书和/或修改文本应邮寄或递交国家知识产权局专利局受理处,凡未邮寄或递交给受理 处的文件不具备法律效力。
- (4)未经预约,申请人和/或代理人不得前来国家知识产权局专利局与审查员举行会晤。

9. 本通知书正文部分共有	2	_页,并	附有	下述附	件:	
[7]出田的对比文件的复印	生土	_ 2	<i>(</i> ()	19	<u> </u>	

审查员: 2004年3



审查部门 审查协作中心

第一次审查意见通知书正文

经审查, 具体意见如下:

- 1、权利要求 1 请求保护一种渗碳方法,对比文件 1 (JP 平 2000-129418A, 说明书摘要、附图 1)公开了一种渗碳方法, 在 1.33-13.3 千帕的压力下于渗碳炉 1 中用饱和链烃对钢质品 2 进行 渗碳。权利要求1与对比文件1公开的内容相比,其区别在于:(1) 权利要求 1 中的渗碳气体中一氧化碳含量不大于 30%而对比文件 1 没有公开渗碳气体中一氧化碳的具体含量;(2)权利要求 1 中在渗 碳的同时分析渗碳气体组成并根据分析结果来调节温度、压力或气 体组成。对比文件 2 (US5828582A, 说明书第 1 栏第 12 行至第 6 栏 第 60 行) 公开了一种可用于金属渗碳过程中调节气体产生的装置 (如限定渗碳气体的组分含量保持在40%的氮气、40%的氢气和20 %的一氧化碳),通过氧传感器或温度传感器来调节渗碳气体的组 成。由此可知,对比文件 2 公开了上述区别技术特征,由于对比文 件 2 和对比文件 1 同属金属渗碳领域,对于本领域技术人员而言, 在对比文件 1 的基础上结合对比文件 2 来得到权利要求 1 的技术方 案是显而易见的,因此,权利要求 1 请求保护的技术方案不具有突 出的实质性特点和显著的进步,不符合专利法第 22 条第 3 款有关 创造性的规定。
- 2、权利要求 2 和 3 的附加技术特征已被对比文件 2 (出处同前) 所公开,因此,当引用的权利要求不具有创造性时,权利要求 2 和 3 请求保护的技术方案也不具有突出的实质性特点和显著的进步, 不符合专利法第 22 条第 3 款有关创造性的规定。
- 3、权利要求 4 的附加技术特征是:通过分析氢含量来分析渗碳过程中气体的组成。对于本领域技术人员而言,上述附加技术特征是常规手段,并且采用这种手段也没有给本申请带来预料不到的技术效果,因此,当引用的权利要求不具有创造性时,权利要求 4 请求保护的技术方案也不具有突出的实质性特点和显著的进步,不符合专利法第 22 条第 3 款有关创造性的规定。
- 4、权利要求 5 请求保护一种渗碳设备,对比文件 1 (出处同前)公开了一种在 1.33-13.3 千帕压力下渗碳设备,包括渗碳室 1、加热装置 3、压力控制装置 7、气体供给装置 5 等。权利要求 1 与对比文件 1 公开的内容相比,其区别在于:权利要求 1 还包括气体分析装置、气氛气体组成调节装置、显示分析结果的信息显示设备。

对比文件 2(出处同前)公开了一种可用于金属渗碳过程中调节气体产生的装置(如限定渗碳气体的组分含量保持在 40%的氮气、40%的氢气和 20%的一氧化碳),包括氧传感器或温度传感器、气体组成调节装置和显示分析结果的信息显示设备。由此可知,对比文件 2公开了上述区别技术特征,由于对比文件 2和对比文件 1同属金属渗碳领域,对于本领域技术人员而言,在对比文件 1的基础上结合对比文件 2来得到权利要求 4的技术方案是显而易见的,因此,权利要求 4 请求保护的技术方案不具有突出的实质性特点和显著的进步,不符合专利法第 22条第 3 款有关创造性的规定。

- 5、权利要求 6 和 7 的附加技术特征已被对比文件 2 (出处同前) 所公开,因此,当引用的权利要求不具有创造性时,权利要求 6 和 7 请求保护的技术方案也不具有突出的实质性特点和显著的进步, 不符合专利法第 22 条第 3 款有关创造性的规定。
- 6、权利要求 8 的附加技术特征是: 气体分析装置是氢传感器。对于本领域技术人员而言,上述附加技术特征是常规手段,并且采用这种手段也没有给本申请带来预料不到的技术效果,因此,当引用的权利要求不具有创造性时,权利要求 8 请求保护的技术方案也不具有突出的实质性特点和显著的进步,不符合专利法第 22 条第 3 款有关创造性的规定。

基于上述理由,本申请不具备被授予专利权的前景。如果申请人不能在本通知书规定的答复期限内作出有说服力的陈述,本申请将被驳回。

THE PATENT OFFICE OF THE PEOPLE'S REPUBLIC OF CHINA

Address: 6 Xi Tu Cheng Lu, Haidian, Beijing

Applicant: ORIENTAL ENGINEERING CO., LTD.

Attorney: CHUANHONG LONG Date of Notification:

Application No.: 02102026.4 Date: 02 Month: 04 Year: 2004

Title of the Invention: CARBURIZING METHOD AND CARBURIZING APPARATUS

Post Code: 100088

Notification of the First Office Action

	above-identi People's Rep ☐ The Chinese	ified patent application in the part of th	ination as to substance and ation for invention under A preinafter referred to as "the decided to examine the ap	Article 35(1) of the Patent Law").	he Patent Law of	the
2.0		claimed priority/j	priorities based on the app	lication(s):		
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			e filed and therefore the			
		der Article 30 of t			,	
I	☐ The applicati	on is a PCT conti	nuation.			
3	. ☐ The applicant	submitted amenda	ents to the application on		and on	, wherein
٥.	the amended		submitted on		and on	, wherein
	the amended		submitted on		are not acceptab	ile
1			omply with Article 33	of the Patent I a	_ •	,,,
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No.	Number(s) or Title(s) of Reference(s)	Date of Publication
1	JP2000-129418A	(or the filing date of conflicting application) Date: 9 Month: 5 Year: 2000
2	US5828582A	Date: <u>27</u> Month: <u>10</u> Year: <u>1998</u>
3		Date: Month: Year:
4	,	Date: Month: Year:
5		Date: Month: Year:
7. In [] 8. Th (1) (2) (3) (4) 9. Th	On the Specification: The subject matter contained in the application is not patentable upon the Specification: The description does not comply with Article 26 paragraph 3 of the The draft of the description does not comply with Rule 18 of the IOn the Claims: Claim(s)	mplementing Regulations. Int Law. Interpretations prescribed by Rule 2 Iticle 22 paragraph 2 of the Article 22 paragraph 3 of the required by Article 22 paragraph of the Patent Law. Interpretation of the Implementing aw. Interpretation is patentable and make inted out in the text portion of the projected. Interpretation is patentable and make inted out in the text portion of the will be rejected. Interpretation is patentable and make inted out in the text portion of the projected. Interpretation is patentable and make inted out in the text portion of the will be rejected. Interpretation is patentable and make inted out the office action within 4 without any justified reason, the without any justified reason and the without any justified reason are without any justified reason and without any justified reason are without any justified reason
	2 cited reference(s), totaling 19 pages. □	*
Exa	amination Dept. 9 Examiner: Zhang Qunfeng	Seal of the Examination Departmen

Text of the First Office Action

After examination, the following opinions are given:

1. Claim 1 seeks to protect a carburizing method. Reference 1 (JP-2000-129418 A, cf. the abstract and Fig 1) disclosed a carburizing method, which specifically subjects the steel parts 2 to a carburizing treatment with saturated chain hydrocarbon in the heating chamber 1 under a pressure of 1.33 to 13.3 kPa.

Claim 1 differs from the disclosure of Reference 1 in that (1) the caubirizing gas contains not more than 30% by volume of carbon monoxide and (2) the carburization is carried out while analyzing the composition of the atmosphere gas and adjusting at least one of temperature, pressure and composition of the atmosphere gas according to the analysis result.

However, Reference 2 (US 5828582 A, cf. the specification, column 1 line 12 to column 6 line 60) disclosed a gas generator useful in carburizing metals, wherein the composition of the carburizing gas is adjusted by oxygen sensor or temperature sensor to maintain 40% of oxygen, 40% of hydrogen and 20% of carbon monoxide in the carburizing gas. So all the above different technical features have been disclosed in Reference 2, which belongs to the same technical field as this application

So it is obvious for those skilled in the art to get the technical solution of claim 1 by combining Reference 2 on the basis of Reference 1. Thus claim 1 does not possess the substantial features and does not represent the notable progress, i.e. does not possess the inventiveness as required by Article 22 (3) of the Chinese Patent Law.

2. All the additional technical features of claims 2-3 have been disclosed in Reference 2, so in the case of that the referred claim does not possess the inventiveness, all these claims do not possess the inventiveness as

required by Article 22 of the Chinese Patent Law either.

- 3. The additional technical feature of claim 4 is that "the composition of said atmosphere gas during carburization is analyzed by measuring a hydrogen amount in said atmosphere gas". But such a feature is a common means to those skilled in the art and fails to bring about any unexpected technical effects for this application. So in the case of that the referred claim does not possesses the inventiveness, this claim does not possess the substantial features and does not represent the notable progress, i.e. does not possess the inventiveness as required by Article 22 (3) of the Chinese Patent Law either.
- 4. Claim 5 seeks to protect a carburizing apparatus. Reference 1 (JP 2000-129418 A, cf. the abstract and Fig 1) disclosed a carburizing apparatus under a pressure of 1.33 to 13.3 kPa, which specifically comprises a carburizing chamber 1, heating means 3, pressure controlling means 7, gas supplying means 5.

The difference is that claim 5 further comprises the gas analysis means, the atmosphere gas composition adjustment means and the information display apparatus.

However, Reference 2 (US 5828582 A, cf. the specification, column 1 line 12 to column 6 line 60) disclosed a gas generator useful in carburizing metals, which comprises oxygen sensor or temperature sensor, gas composition adjustment means and the information display apparatus. So all the above different technical features have been disclosed in Reference 2, which belongs to the same technical field as this application.

So it is obvious for those skilled in the art to get the technical solution of claim 5 by combining Reference 2 on the basis of Reference 1. Thus claim 5 does not possess the substantial features and does not represent the notable progress, i.e. does not possess the inventiveness as required by

Article 22 (3) of the Chinese Patent Law.

- 5. All the additional technical features of claims 6-7 have been disclosed in Reference 2, so in the case of that the referred claim does not possess the inventiveness, all these claims do not possess the inventiveness as required by Article 22 of the Chinese Patent Law either.
- 6. The additional technical feature of claim 8 is that "the gas analysis means is a hydrogen sensor". But such a feature is a common means to those skilled in the art and fails to bring about any unexpected technical effects for this application. So in the case of that the referred claim does not possesses the inventiveness, this claim does not possess the substantial features and does not represent the notable progress, i.e. does not possess the inventiveness as required by Article 22 (3) of the Chinese Patent Law either.

Due to above reasons, this application can not be allowed. If the applicant could not make convincible observation during the designated period, this application might be rejected.